

**CLAIMS**

1. Method of building a termination of an electrical cable (CA), said termination comprising:

an outer insulator body (2),

a substantially longitudinally extended interior member (4, 5, 5.1, 9) comprising said electrical cable (CA) to be terminated, said cable (CA) comprising a conductor (5.1) for carrying load,

an insulating material (3), filled in a cavity between said outer insulator body (2) and said interior member (4, 5, 5.1), and

means for accommodating the volume expansions of said insulating material (3) within said cavity;

the method comprising the steps of

- creating said cavity by introducing said interior member (4, 5, 5.1) into said outer insulator body(2);
- filling said insulating material (3) into said cavity;
- sealing said termination;
- said method further comprising the step of placing a volume change compensation member (13) into said cavity, said volume change compensation member (13) having a predetermined volume to accommodate volume

expansions of said insulating material (3) within said cavity.

2. Method according to claim 1, wherein the step of placing the volume change compensation member (13) into the cavity is performed before the step of filling in the insulating material (3).
3. Method according to claim 1, wherein the step of filling said insulating material (3) into said cavity comprises the steps of filling an insulating filler and an insulating compound.
4. Method according to claim 3, wherein the step of placing said volume change compensation member (13) is carried out after the step of filling said insulating filler.
5. Method according to one of the preceding claims, wherein said volume change compensation member (13) is a solid body.
6. Method according to one of claims 1 to 4, wherein said volume change compensation member (13) is a foam body.
7. Method according to one of claims 1 to 4, wherein said volume change compensation member (13) is a hollow body.
8. Method according to one of claims 1 to 4, wherein said volume change compensation member (13) is a compressible body.
9. Method according to one of claims 1 to 4, wherein said volume change compensation member (13) is an inflatable body.
10. Method according to one of the preceding claims, further comprising the step of selecting the predetermined

volume of the volume change compensation member (13) depending on the temperature of the insulating material (3).

11. Method according to one of the preceding claims, further comprising the step of selecting the predetermined volume of the volume change compensation member (13) depending on the ambient temperature range of the area where said termination has to be installed.
12. Method according to one of the preceding claims, further comprising the step of removing the volume change compensation member (13) after the step of filling said insulating material (3) into said cavity.

13. A termination of an electrical cable (CA) comprising:

an outer insulator body member (2)

a substantially longitudinally extended interior member (4, 5, 5.1, 9) comprising said electrical cable (CA) to be terminated, said cable (CA) comprising a conductor (5.1) for carrying load;

an insulating material (3), filled in a cavity between said outer insulator body (2) and said interior member (4, 5, 5.1), and

means for accommodating the volume expansions of said insulating material (3) within said cavity,  
c h a r a c t e r I z e d i n  
that said means for accommodating the volume expansions of said insulating material (3) comprises

a volume change compensation member (13) having a predetermined volume to ensure the accommodation of said volume expansions.

14. Termination according to claim 13, wherein said volume change compensation member (13) compensates the volume expansions of said insulating material (3) by changing its own volume.
15. Termination according to claim 13, wherein said volume change compensation member (13) is compressible.
16. Termination according to claim 13, wherein said volume change compensation member (13) is a foam body.
17. Volume change compensation member (13) according to one of claims 13 to 15, wherein said volume change compensation member (13) is a hollow body.
18. Volume change compensation member (13) according to one of claims 13-15, wherein said volume change compensation member (13) is an inflatable body.
19. Volume change compensation member (13) according to claim 13, wherein said volume change compensation member (13) is a solid body.
20. Termination according to claim 13, wherein said volume change compensation member (13) is placed in the upper part of said termination.
21. Termination according to claim 16, wherein said foam material is electrically insulating or semi-conducting.
22. Termination according to claim 16, wherein the foam material is a closed cell material.
23. Termination according to claim 16, wherein said foam body contains encapsulated chemicals.

24. Termination according to claim 16, wherein said foam body contains water absorbing materials.
25. Termination according to claim 17, wherein said hollow body comprises a plurality of compressible elements each having an outer skin and a compressible interior space.
26. Termination according to claim 25, wherein said compressible interior space is filled with gas.
27. Termination according to claim 18, wherein said inflatable body comprises a flexible skin which is blown up with gas.
28. Termination according to claim 27, wherein the material of said skin is made of electrically insulating or semi-conducting material.
29. Termination according to claim 13, further comprising means (4) for controlling electrical stress concentrations.